

CLAIMS

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1. A helical vasoocclusion coil for use with a wire having a distal end, said coil having:
- (a) a proximal end adapted to detachably couple to the distal end of the wire;
 - (b) a distal end;
 - (c) a first diameter intermediate (a) and (b); and
 - (d) a second diameter smaller than said first diameter at said proximal end whereby said proximal end is positioned radially inwardly of said first diameter.
2. The coil of claim 1 wherein the second diameter is also at the distal end of the coil whereby the distal end of the coil is also positioned radially inwardly of said first diameter.
3. The coil of claim 1 wherein said proximal end has a coupling member that detachably interlocks with the distal end of the wire.
4. An assembly for use in occluding a vessel or a cavity within a vessel comprising:
- (a) an elongated wire having a distal end that carries a first coupling member; and
 - (b) a helical vasoocclusion coil having:
 - (i) a proximal end that carries a second coupling member that is detachably coupled to the first coupling member;
 - (ii) a distal end;
 - (iii) a first diameter intermediate (i) and (ii); and
- 57

(iv) a second diameter smaller than said first diameter at said proximal end whereby the first coupling member is positioned radially inwardly of said first diameter.

5. The assembly of claim 4 wherein the second diameter is also at the distal end of the coil whereby the distal end of the coil is also positioned radially inwardly of said first diameter.

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D1

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E4

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